

90/10 01

B·A·R·G NEWS

OCTOBER 1990



© **Monthly Newsletter of the
Ballarat Amateur Radio Group**

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90/10 02

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	Reg Carter	VK3CAZ		

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AWARDS MANAGER	Maurie Baft	VK3XEX	422245	
PROPERTY OFFICER	Dick Antosiewicz	VK3AEX	323273	381818
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	Geoff Smith	VK3ADB	332112	321719
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	Ian McDonald	VK3AXH		311317
	Dick Forrester	VK3VU	357663	391001
	David McConnell	VK3YNB		
NEWSLETTER EDITORS	Bob Terrill	VK3BNC	395317	391001
	Harry Hekkema	VK3KGL	357563	391001

REPEATERS: VK3RBA - 146.750 Voice. Mt. Buninyong (ch.3)

VK3RBS - 146.900 Voice. Smeaton Hill (ch.6)

VK3RPC - 147.575 Packet. Mt. Warrenheip.

CLUB NET: ON 3.610 Mhz SSB +/- QRM.

Every Thursday at 8PM.

MEETINGS: Held every last Friday of
month at 7.30PM. in the

Ballarat Community Education Centre
Hopetoun St.
Ballarat

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90/10 03

PRESIDENTS NOTE

Well here we are again with our "big" weekend convention on our doorstep. Lets hope the weather is kind to us and lots of people and goodies will be there for all to enjoy. Be prepared to help this event a huge success by all chipping in !! Dont forget to bring your raffle tickets (all sold Hi Hi) back to the meeting on Friday or prior to the draw. If you can persuade your loved ones to participate on the day by assisting in the kitchen it would be a great help.

Our next visit is also occuring on November 14th at the Orpheus Radio Museum in Ring Road. This promises to be a very informative and interesting meeting. Visitors will be surprised by the displays and kits that are available and the possibility of picking up a spare part for that old radio.

It has been decided by the committee that our scramble will stop over the xmas break. This means that the last event will occur on Sunday 25th November and recommence on Sunday 27th January 1991. The monthly winners should be at the November meeting to collect their prizes.

Scramble results for September :-

VK3KGL	24	VK3XOA	50
VK3YMW	35	VK3DCS	37
VK3JAT	42	VK3TOM	50
VK3CCB	32	VK3KGC	38
VK3CIS	17		

THE WINNERS ARE RON VK3XOA AND TOM VK3TOM - CONGRATULATIONS

In the next magazine the names and callsigns together with the total number of points indicating the aggregate leader will be provided - Keep up the participation !!!!!!!!

Have you built your antenna for the convention competition yet ?? Dont forget this may also help you in the scramble competition.

73's VK3AXH

LADIES HELP!

We are again appealing for those ladies who are willing to give up some of their time to feed their inner men {laddy}. For those ladies who have not been involved at previous conventions then if you would like to help in the food area then I am sure that Pearl [chief Cook] and her overworked helpers would love to see you. Just bring an apron, the latest gossip and we will see you on Sunday.

D O N ' T F O R G E T !!!
Visit to ORPHEUS RADIO MUSEUM - NOVEMBER 14.
7.30 PM.
Cnr. Ring Rd. & Western Hwy.

90/10 04

MINUTES OF GENERAL MEETING HELD 28th SEPTEMBER 1990.

MEETING OPENED by Vice President Tom VK3 TOM at 7.45pm with 35 members in attendance.

APOLOGIES VK3 SE, ENT, PAL, NIZ, DS, ASU, CFH, CUH, KIT, KQF, PJB, AXH, CAZ, ENT, ATA.

MINUTES of previous meeting as circulated were confirmed. JAT/TI.

CORRESPONDENCE IN GARC Newsletter.

CORRESPONDENCE OUT WIA cheque for \$105.00 examination fees, also details of BARG Officers and meeting nights for WIA records.

TREASURERS REPORT General a/c \$1017.63. VS&L \$2424.15.
Accounts for \$873.00 passed for payment.
Treasurers report received KGL/AAI.

QSL BUREAU No cards received.

CLUB NET Charley DCS reported good support but lack of outsider callins.

EDUCATION Applications for the November exams close at end of October.

TECHNICAL Merv KAW reported that RBA & RBS are operating well, new crystals have been ordered for RPC.

HAMVENTION Kevin WN is getting good response from distributors asking for table space, other arrangements are well in hand.
Entry Fee will be \$8.00 with lunch, \$4.00 without lunch.

WICEN Gordon KGC is hoping to conduct a WICEN exercise on Saturday 3rd November at Burrumbete Race Course 2.00pm.

GENERAL BUSINESS.

Secretary to order supply of 1991 Call Books and WIA Log Books.

Secretary to write letter of thanks to Ansett for simulator visit.

Secretary to write to Regional Director of Education requesting that Car Park be floodlit to discourage vandalism.

Secretary to write to Maggie CFI asking for details of equipment she would like the Club to supply and what it will be used for.

John CFH requested that we include the Alice Springs R.C. on our Newsletter mailing list. This was agreed to.

NOTICE OF MOTION by George DOK that the following motion which was passed on 24th Feb 1989 be recinded. Motion read/- That the price of awards be changed to Goldrush \$3. Western Zone \$2 and the DX Widows award be free with applications for the other two. Moved KQF seconded CAZ.

MEETING CLOSED at 8.35pm after Merv KAW gave a talk on problems being experienced by Packet Operators.

DON'T FORGET TO RETURN RAFFLE TICKETS AT OCTOBER MEETING.

73s Jim.

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NEXT BARG MEETING Friday 26th October at Education Centre. 7.30pm

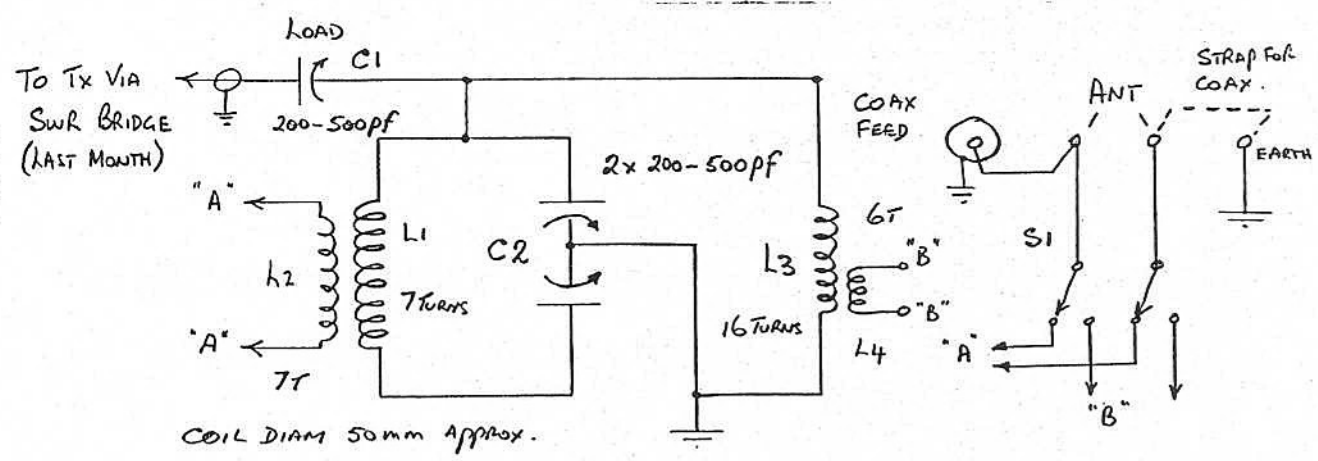
COMMITTEE MEETING Monday 26th November at Education Centre. 7.30pm

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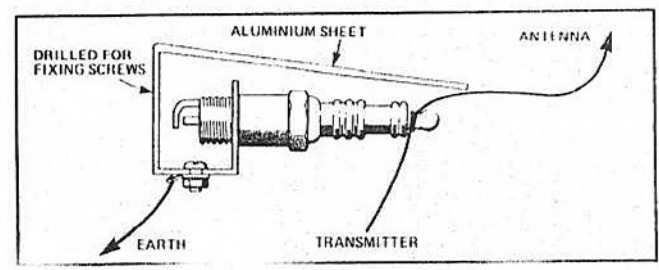
90/10 05

QRP COURNER. *****

This article deals with the antenna tuner and although designed primarily for the Qrp transmitter with suitable air wound coils this is suitable for Qro operation also. The circuit first surfaced in the RSGB handbook under the title of "The Z Match coupler". It can be used for both open wire antennas or coaxial fed systems. I personally prefer the single 130 foot dipole fed with open wire using one of these tuners. The advantages being a "go anywhere Antenna" - a low loss feed { compare with a similar run of coax }, however the disadvantage being mechanical problems of the open wire feed. All things considered I find this no problem to live with. Well down to business. The coils are wound on 50mm plastic and starting with L3 16 turns then give it two layers of electrical tape before winding L4 over the "cold" end. The same procedure is used for L1 and L2. The tuning and loading gangs [C2 and C1 respectively] can be the "plastic" types as used in transistor radios. If you can't get exactly the right values then try them anyway - some adjustment to the coils may be necessary to get the frequency coverage required. The switch can be either a slide type or a standard toggle type. The switch positions " A or B " basically indicate the low or high bands but this could also depend upon the frequency and the length of the feeders. Mechanically I suggest that you mount the Atu and last months SWR Bridge in the same box. Layout is not critical excepting for L1/L2 and L3/L4 must be mounted at right angles to each other. If you are not sure about layout etc then have a look at it at our next club meeting. To use the bridge and Atu connect up to the transmitter and Antenna. The open wire is straight forward, however if using coax feed then ground one side of the feeders as shown on the diagram. I use push type terminals for easy connections. Place the bridge in calibrate mode, then with key down adjust for full scale on the meter. Now turn switch to adjust. The Atu tune and loading controls are now adjusted along with S1 to get a minium reading on your meter. When this is done switch to operate as your transmitter is now matched to its load. Next month a look at some antenna systems suitable for Qrp/Portable operation. See you then. Bob VK3BNC.



An Antenna Discharger



90/10 06

FOR SALE.

Two 8 elemewnt 2m Yag's - complete with phasing harness and supports. Would also consider swap for IC-22s in any working order. Contact Doug VK3KAY, Phone 392778.

The late Tim Palmer's estate. Most of the equipment listed in last months mag is still available. The TS120 has been sold. If you would like to make an offer for any of the remaining items the prices are negotiable so give Trevor a ring on 053 316905 after hours. Vx3YJT.

28Mhz to 2 Metre Transverter - up to 5 watts input gives 25 watts P.e.p output. \$ 125.00.

28Mhz to 432/435 Mhz." Microwave "module includes satellite frequencies. 20 mwatt drive for 10 watts output. \$250.00 Contact Ian VK3AXH BH 314045.

Wanted a matching speaker for an FT100 Receiver .Contact Barry VK3PGD.

QSL PRINT PROGRAM - Version C64.

Adapted by Tom - VK3TOM.

```
5 REM ** COMMODORE 64 VERSION **
10 REM ** PROGRAM PRINTS QSL CARD INFO **
15 RESTORE
30 PRINT CHR$(147)
40 REM ** TYPE IN DATA FOR PRINTING **
50 INPUT "CALLSIGN ";A$
60 INPUT "NAME ";B$
70 INPUT "COUNTRY ";C$
80 INPUT "DATE ";D$
90 INPUT "TIME ";E$
100 INPUT "FREQUENCY ";F$
110 INPUT "SIG REPORT";G$
120 INPUT "AERIAL ";H$
130 INPUT "MODE ";I$
140 INPUT "POWER ";T$
150 REM ** PERSONAL REMARKS **
160 INPUT"REM 1 ";J$
165 INPUT"REM 2 ";K$
170 INPUT"REM 3 ";L$
180 INPUT"ARE ALL DETAILS CORRECT - Y/N ";M$
190 IF M$="N" THEN 15
200 REM ** PRINTING INFO **
205 OPEN 4,4
210 PRINT#4,CHR$(14);"VK3TOM";CHR$(15);" TO ";CHR$(14);A$;CHR$(15)
220 PRINT#4,CHR$(157);"TOM GEORGE, 8/35 BEVERIN STREET"
221 PRINT#4,"SEBASTOPOL VIC A U S T R A L I A "
225 PRINT#4,"===== "
230 PRINT#4,"TO RADIO ";A$;" ";B$;" ";C$
240 PRINT#4,"CONFIRMING QSO ON ";F$;" MHZ AT ";E$;" UTC ";D$
250 PRINT#4,"SIGNAL REPORT ";G$
260 PRINT#4,"MODE ";I$;" POWER ";T$;" WATTS"
270 PRINT#4,"TRANSMITTER; FT-7 AERIAL; ";H$
300 PRINT#4," ";J$;PRINT#4," ";K$;PRINT#4," ";L$
310 PRINT#4,"THANKS FOR QSO ";B$;" 73'S TOM.";CHR$(15)
350 CLOSE 4
400 INPUT"ANOTHER QSL CARD ";R$
410 IF R$="Y" THEN 15
420 IF R$="N" THEN END
430 GOTO 400
```

90/10 07

Information Technology with our Colac correspondent.

At Trinity College in Colac 16 year 11 students are studying Information Technology. This is a trial version of a course yet to be accredited by the VCE.

I chose the Telecommunications and the Rural Community for a theme for semester two. The students then learned how to use a modem and the software used by their choice of hardware. So, on the Macintosh, they used a Netcomm modem and Microsoft Works. On the Amstrad with its inbuilt modem, they used mirror.

Well Government schools get a reduction in their phone bill when calls are made with modems but, alas, Trinity College has to pay full rates. Since modems are expensive to use and I wanted the students to have a go at another form of modem, the Terminal Node Controller, I set up a station at work.

The hardware and software are provided by the school. I brought in a vertical antenna with a magnetic mount. Each day I climbed up to the roof [or a student did] and planted the antenna. I also brought in my own TNC and rig.

Propagation isn't wonderful from this spot so we usually had to digipeat through my home station in order to get into VK3RPG. Well, there were No problems in drumming up interest in sending and receiving messages. Soon, other students had a go. In the morning, instead of being greeted with a cheery hello, students would ask [read; implore] "Any mail off the BBS for me?"

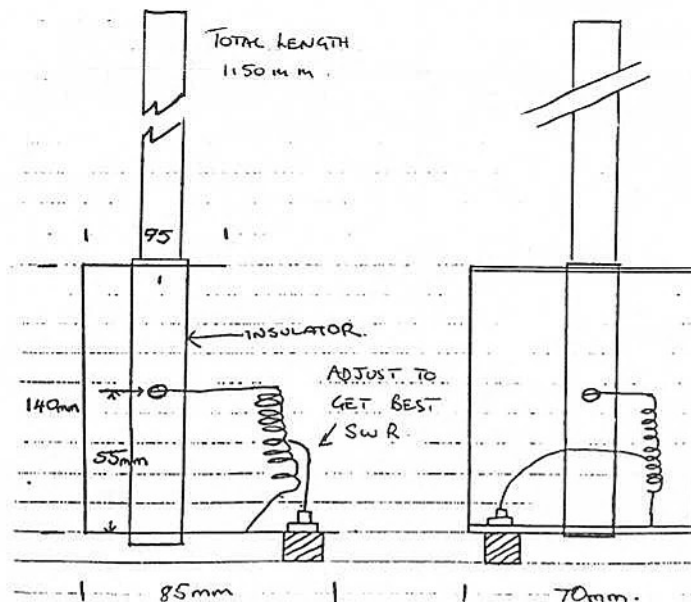
To date we have had real time QSO's with students at Charlton through VK3THR, the club station with Mark VK3XVC its trustee. We also send and receive messages from four of his students via VK3JAV and VK3YLV-1. They have also sent messages to school stations in Japan, Germany and New Zealand. They are still waiting to hear back from Japan and Germany. Also, Telecom sent one of its ITERRA dishes [3m diam] to Trinity. But that's another story.

Information Technology has proved popular and next year the school will be offering two classes in the subject. I am hoping to make further contacts with students in Australia and overseas.

73 de Maggie. VK3CFI.

DOUG'S 2m ANTENNA>
VK3KAY.

You will need a piece of 3/8 diam aluminum 1150 long. The coil is 10 turns, 10mm diam, of 18# wire. One piece of garden hose etc 150mm long to use as an insulator for the element, SO239 socket, screws, brackets etc. Construct to diagrams and you should have an SWR of 1.5:1.



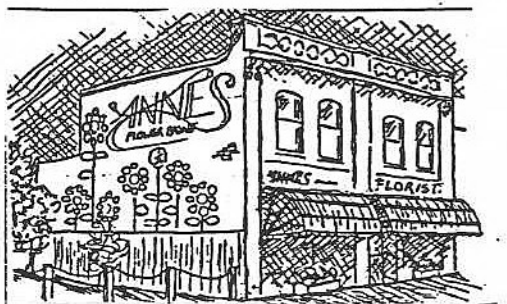
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